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Karasek gives an illustrated account of vegetation in the gardens of German Africa, in the *Wiener illustrierte Gartenzeitung* for November, 1905.

The Journals.— *The Botanical Gazette*, September:— Blakeslee, "Two Conidia-bearing Fungi"; Mottier, "The Development of the Heterotypic Chromosomes in Pollen Mother Cells"; Livingston, "Relation of Transpiration to Growth in Wheat"; Arthur, "Rusts on Compositæ from Mexico"; Shattuck, "A Morphological Study of *Ulmus americana*"; Billings, "Precursory Leaf-serrations of *Ulmus*"; Sheldon, "The Effect of Different Soils on the Development of the Carnation Rust."

The Botanical Gazette, October:— McCallum, "Regeneration in Plants — II"; Brown, "A Botanical Survey of the Huron River Valley — III"; Lyon, "The Spore Coats of Selaginella"; Schneider, "Contributions to the Biology of Rhizobia — V"; Eckerson, "The Physiological Constants of Plants Commonly used in American Botanical Laboratories — I"; Kraemer, "Further Observations on the Structure of the Starch Grain."

The Botanical Gazette, November:— Peirce and Randolph, "Studies of Irritability in Algae"; Transeau, "The Bogs and Bog Flora of the Huron River Valley"; Ball, "Notes on North American Willows — I."

The Bryologist, November:— Haynes, "*Telaranea nematodes longifolia*"; Sargent, "Lichenology for Beginners — IV"; Chamberlain, "Some Common Errors"; Hill, "*Encalypta procera*"; Merrill, "Lichen Notes — I"; Holzinger, "A Note on Local Moss Distribution."

Bulletin of the Torrey Botanical Club, September:— Harper, "Phytogeographical Explorations in the Coastal Plain of Georgia in 1904"; Murrill, "The Polyporaceæ of North America — XII, A Synopsis of the White and Bright Colored Pileate Species"; Mackenzie, "Onosmodium."

Bulletin of the Torrey Botanical Club, October:— Cannon, "A New Method of Measuring the Transpiration of Plants in Place"; Harris, "The Fruit of *Opuntia*"; Abrams, "Studies on the Flora of Southern California"; Piper, "*Agropyron tenerum* and its Allies"; Cushman, "The Desmid Flora of Nantucket."

The Fern Bulletin, July:— Clute, "Species and Varieties among the Ferns"; Gilbert, "Observations on North American Pterido-

phytes"; Clute, "A Walking Shield Fern"; Gilbert, "Some Mexican Fernworts"; Terry, "More about the Ferns of Dorset"; Klugh, "*Nephrodium Boottii* or *N. spinulosum* \times *cristatum*"; Eaton, "*Botrychium biternatum*."

The Journal of Mycology, July:—Morgan, "A New Species of *Kalmusia*"; Morgan, "*Peziza pubida*"; Davis, "A New Species of *Synchytrium*"; Holway, "North American *Salvia*-Rusts"; Clevenger, "Notes on some North American *Phyllachoras*"; Lawrence, "Blackspot Canker and Blackspot Apple Rot"; Sumstine, "*Gomphidius rhodoxanthus* once more"; Sherman, "The Host Plants of *Panæolus epimyces*"; Kellerman, "Notes from Mycological Literature — XVI," and "Index to North American Mycology."

Journal of the New York Botanical Garden, September:—Britton, "A Lost Species of *Begonia* [*B. rotundifolia*] apparently Rediscovered"; Hollick, "Palæobotanical Notes"; MacDougal, "Suwarro or Saguaro."

Mühlenbergia, vol. 1, no. 7:—Heller, "The Western *Veratrums*," and "A New *Linanthus*."

Mühlenbergia, vol. 2, no. 1, is occupied by an account of botanical exploration in California during 1905, by the editor, Mr. Heller.

The Ohio Naturalist, November:—Surface, "Contribution to the Life History of *Sanguinaria canadensis*"; Schaffner, "The Classification of Plants — II"; Fischer, "An Abnormal Cone of *Pinus laricio*"; Gleason, "Notes from the Ohio State Herbarium — IV."

Appropriate space is devoted to botany in the *Ontario Natural Science Bulletin*,—the newly launched journal of the Wellington Field Naturalists' Club, of Guelph, Ontario.

The Plant World, August:—Bessey, "How much Plant Pathology ought a Teacher of Botany to know?"; Reed, "A Brief History of Ecological Work in Botany (Conclusion)"; Nehrling, "An Indian *Magnolia* [*Talauma hodgsoni*] in America."

The Plant World, September:—Atkinson, "Outlines for the Observation of some of the more Common Fungi"; Lloyd, "The Barley Cone—I. Some Points of Structure"; Kinney, "Outline of a Course in Plant Culture."

Rhodora, September:—Pease, "Notes on the Accentuation of Certain Generic Names"; Sargent, "Recently Recognized Species

of *Cratægus* in Eastern Canada and New England — VI"; Fernald, "*Symphoricarpos racemosus* and its Varieties in Eastern America"; Howe, "*Lotus tenuis* as a Waif in Rhode Island"; Collins, "Phycological Notes of the late Isaac Holden — I."

Rhodora, October: — Sanford, "*Eclipta alba* in Mass."; Sargent, "Recently Recognized Species of *Cratægus* in Eastern Canada and New England—VI (continued)"; Fernald, "An Anomalous Alpine Willow"; Lewis, "*Sclerolepis* in N. H."

The first volume of the *Proceedings of the American Breeders' Association*, containing an account of the St. Louis meeting of 1903 and the Champaign meeting of 1905, has recently been issued, and contains a large number of unusually practical and some theoretical articles on both animal and plant breeding.

Torrey, September: — Greene, "Origin of *Rhus bipinnata*"; Harris, "New Fasciations"; Tidestrom, "Note on *Botrychium virginianum*"; Harper, "Some Large Specimens of Small Trees in Ga."; Clark, "Cotyledon- and Leaf-structure in Certain Ranunculaceæ"; House, "*Lespedeza velutina* Bicknell a Homonym."

Torrey, October: — Tidestrom, "Notes on the Gray Polypody"; Lloyd, "The Artificial Induction of Leaf Formation in the Ocotillo"; Berry, "An Old Swamp-Bottom"; Harper, "*Mesadenia lanceolata* and its Allies."

Zoe, August: — T. S. Brandegee, "A Collection of Mexican Plants"; "Palms of Baja California"; "A New Calamintha"; "Plants from Sinaloa, Mexico"; Greenman, "New Species of Mexican Plants"; Katharine Brandegee, "Notes on Cactæe."

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